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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/024,849	12/18/2001	Gerad Pucheu-Marque	28944/40018	6145
29471	7590	08/23/2005	EXAMINER	
MCCRACKEN & FRANK LLP 200 W. ADAMS STREET SUITE 2150 CHICAGO, IL 60606			HALIYUR, VENKATESH N	
			ART UNIT	PAPER NUMBER
			2664	

DATE MAILED: 08/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/024,849	PUCHEU-MARQUE, GERAD	
	Examiner	Art Unit	
	Venkatesh Haliyur	2664	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on 12/18/2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 December 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>3/28/2002</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-11 have been examined.

Drawings

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: In Figures 1, 2 and 3, mobile terminals are shown as TER1 and TER2 where as it should be TR1 and TR2. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Art Unit: 2664

4. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Crisler et al [US Pat 5,038,342] in view of Raith [US Pat 5,903,552].

Regarding claim 1,8,10 Crisler et al in "TDM/FDM communication system supporting both TDM and FDM-only communication units" disclosed a method for RF communication system for assignment of channel and establishment of radio links between two incompatible wireless systems when an originating wireless TDM device begins transmitting to a non-TDM system [column 1, lines 43-68 and column 2, lines 1-2]. But Crisler et al fails to disclose a mechanism for the base station to monitor and detect mutual help channel with a given pattern transmitted by the mobile unit for the allocation of traffic channel. However, Raith in his invention "Discriminating between channels in wireless communication systems" disclosed a mechanism to monitor and detect paging control channels for carrying call setup messages between base stations and mobile stations [column 2, lines 28-37, 55-67, column 3, lines 1-12].

Therefore it would have been obvious for one of ordinary skill in the art to use the teachings of Raith on paging control channel mechanism into the system of Crisler et al for monitoring and detecting a given pattern transmitted by the mobile terminal on said mutual help channel, allocating a traffic channel for communicating with the mobile terminal by the base station.

Regarding claim 2,9,11, Crisler et al disclosed a method for establishing traffic links between incompatible wireless systems using a timeslot mechanism [column 5, lines 8-24], but fails to disclose a method to monitor and detect paging control channel with certain periodic timeslots and power level measurement to compare against a pre-selected threshold value for allotting traffic channel. However, Raith in his invention disclosed a method for traffic channel allotment with periodic timeslots by scanning for strongest control channel [column 2, lines 38-54, column 3, lines 13-64].

Therefore it would have been obvious for one of ordinary skill in the art to use the teachings of Raith to assign logical channels in the system of Crisler et al for assigning a control logical channel dedicated to searching for the given pattern on the mutual help channel with a different periodic timeslots.

Regarding claim 3, Crisler et al disclosed frames and slots [column 5, lines 8-50] but fails to disclose a method for periodic timeslot for a broadcasting logical channel set up on a downlink control physical channel specific to the base station. However, Raith discloses downlink superframe that includes logical channels and a broadcast control channel [column 4, lines 32-55].

Therefore it would have been obvious for one of ordinary skill in the art to use the teachings of Raith to include broadcast control channels in the system of

Crisler et al to include periodic timeslots consisting of some of the timeslots of a broadcasting logical channel set up on a downlink control physical channel specific to the base station.

Regarding claim 4, Crisler et al disclosed communication between TDM and FDM units [column 5, lines 24-35], but fail to disclose a silent period in given periodic timeslots of the second system. However, Raith disclosed an idle timeslot during a discontinuous transmission mode [column 2, lines 17-27] in the TDMA cellular system.

Therefore it would have been obvious for one of ordinary skill in the art to use the teachings of Raith to include the method of idle timeslot in the system of Crisler et al for the mobile terminals of the second system are silent during said given periodic timeslots.

Regarding claim 5, Crisler et al disclosed synchronization method for voice and data signals [column 3, lines 52-55], but fails to disclose a synchronization pattern. However, Raith disclosed a synchronization bit pattern mechanism [Fig 2(b), column 4, lines 60-67].

Therefore it would have been obvious for one of ordinary skill in the art to use the teachings of Raith to include the method of synchronization bits in the system of Crisler et al into the frame of a traffic physical channel.

Regarding claim 6, Crisler et al fails to disclose automatic allotment of traffic channel, however Raith disclosed a method that automatically tunes to control channel [column 2, lines 47-54] for the subsequent allotment of traffic channel [column 3, lines 4-12].

Therefore it would have been obvious for one of ordinary skill in the art to use the teachings of Raith to include the method of automatic tuning of channels in the system of Crisler et al for the automatic allocation of the traffic channel.

Regarding claim 7, Crisler et al fails to disclose an operator support interface for their TDM/FDM communication system, however Raith disclosed a network support services to perform duties necessary to maintain and administer network [column 9, lines 38-55].

Therefore it would have been obvious for one of ordinary skill in the art to use the teachings of Raith to include the process of network services and support in the system of Crisler et al when it necessitates allocation of traffic channel to be controlled by an operator.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art in reference here are Crisler et al and Raith

6. Any inquiry concerning this communication or earlier communications should be directed to the attention to Venkatesh Haliyur whose phone number is 571-272-8616. The examiner can normally be reached on Monday-Friday from 9:00AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached @ (571)-272-3134.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (571)-272-2600 or fax to 571-273-8300.

7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197(toll-free).


Ajit Patel
Primary Examiner